

Title (en)
METHOD FOR PRODUCING SOLID POLYMETHYLALUMINOXANE COMPOSITION HAVING SMALL PARTICLE DIAMETER

Title (de)
VERFAHREN ZUR HERSTELLUNG EINER FESTEN POLYMETHYLALUMINOXANZUSAMMENSETZUNG MIT KLEINEM
TEILCHENDURCHMESSER

Title (fr)
PROCÉDÉ DE FABRICATION D'UNE COMPOSITION SOLIDE DE POLYMÉTHYLALUMINOXANE AYANT UN PETIT DIAMÈTRE PARTICULAIRE

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Application
EP 13770307 A 20130315

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Abstract (en)
The present invention relates to a solid polymethylaluminoxane composition of uniform particle diameter in the form of fine particles of less than 5 µm employed to polymerize olefins with high polymerization activity without silica, to a method for manufacturing thereof, to a polymerization catalyst, and to a method for manufacturing a polyolefin. The present invention relates to a solid polymethylaluminoxane composition: wherein the aluminum content falls within a range of 36 mass% to 43 mass%; wherein the mole fraction of methyl groups derived from trimethylaluminum moieties relative to the total number of mols of methyl groups is 12 mol% or less; and that is particulate, with the median diameter based on volume falling within a range of 0.1 µm to less than 5 µm. In a step of heating an aromatic hydrocarbon solution containing trimethylaluminum and the polymethylaluminoxane to cause solid polymethylaluminoxane composition to precipitate, prior to or during the heat treating step, a dry, inert gas is bubbled through.

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